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1. **arXiv:2301.01768 [pdf]** cs.CL cs.CY

   ### The political ideology of conversational AI: Converging evidence on ChatGPT's pro-environmental, left-libertarian orientation

   Authors: Jochen Hartmann, Jasper Schwenzow, Maximilian Witte

   Abstract: Conversational artificial intelligence (AI) disrupts how humans interact with technology. Recently, OpenAI introduced **ChatGPT**, a state-of-the-art dialogue model that can converse with its human counterparts with unprecedented capabilities.... ▽ More

   Submitted 5 January, 2023; **originally announced** January 2023.

2. **arXiv:2301.01743 [pdf]** cs.AI cs.CL

   ### Chatbots as Problem Solvers: Playing Twenty Questions with Role Reversals

   Authors: David Noever, Forrest McKee

   Abstract: New chat AI applications like **ChatGPT** offer an advanced understanding of question context and memory across multi-step tasks, such that experiments can test its deductive reasoning. This paper proposes a multi-role and multi-step challenge, where **ChatGPT** plays the classic twenty-questions game but innovatively switches... ▽ More

   Submitted 31 December, 2022; **originally announced** January 2023.

3. **arXiv:2212.14882 [pdf, other]** cs.CL cs.LG

   ### ChatGPT Makes Medicine Easy to Swallow: An Exploratory Case Study on Simplified Radiology Reports

   Authors: Katharina Jeblick, Balthasar Schachtner, Jakob Dexl, Andreas Mittermeier, Anna Theresa Stüber, Johanna Topalis, Tobias Weber, Philipp Wesp, Bastian Sabel, Jens Ricke, Michael Ingrisch

   Abstract: The release of **ChatGPT**, a language model capable of generating text that appears human-like and authentic, has gained significant attention beyond the research community. We expect that the convincing performance of... ▽ More

   Submitted 30 December, 2022; **originally announced** December 2022.

4. **arXiv:2212.14548 [pdf, other]** cs.CL

   ### How would Stance Detection Techniques Evolve after the Launch of ChatGPT?

   Authors: Bowen Zhang, Daijun Ding, Liwen Jing

   Abstract: ...challenges which are insufficient labeled data and information in social media posts and the unexplainable nature of deep learning models. A new pre-trained language model **chatGPT** was launched on Nov 30, 2022. For the stance detection tasks, our experiments show that... ▽ More

   Submitted 30 December, 2022; **originally announced** December 2022.

5. arXiv:2212.11661 [pdf, other] physics.ed-ph

The Death of the Short-Form Physics Essay in the Coming AI Revolution

Authors: Will Yeadon, Oto-Obong Inyang, Arin Mizouri, Alex Peach, Craig Testrow

Abstract: …-word) Physics essays within seconds. These technologies such as **ChatGPT** and davinci-003 are freely available to anyone with an internet connection. In this work, we present evidence of AI generated short-form essays achieving first-class grades on an essay writing assessment from an accredited, current university Physics module. The assessment requires stud… ▽ More

Submitted 22 December, 2022; **originally announced** December 2022.

Comments: 14 pages, 2 figures

6. arXiv:2212.11126 [pdf] cs.CR cs.CL cs.LG

Chatbots in a Botnet World

Authors: Forrest McKee, David Noever

Abstract: Question-and-answer formats provide a novel experimental platform for investigating cybersecurity questions. Unlike previous chatbots, the latest **ChatGPT** model from OpenAI supports an advanced understanding of complex coding questions. The research demonstrates thirteen coding tasks that generally qualify as stages in the MITRE ATT&CK framework, ranging… ▽ More

Submitted 22 December, 2022; **v1** submitted 18 December, 2022; **originally announced** December 2022.

7. arXiv:2212.10522 [pdf, other] cs.CL

Transformers Go for the LOLs: Generating (Humourous) Titles from Scientific Abstracts End-to-End

Authors: Yanran Chen, Steffen Eger

Abstract: We consider the end-to-end abstract-to-title generation problem, exploring seven recent transformer based models (including **ChatGPT**) fine-tuned on more than 30k abstract-title pairs from NLP and machine learning venues. As an extension, we also consider the harder problem of generating humorous paper titles. For the latter, we compile the first large-scale h… ▽ More

Submitted 20 December, 2022; **originally announced** December 2022.

8. arXiv:2212.10474 [pdf, other] cs.CL

ByGPT5: End-to-End Style-conditioned Poetry Generation with Token-free Language Models

Authors: Jonas Belouadi, Steffen Eger

Abstract: …and fine-tune it on a large custom corpus of English and German quatrains annotated with our styles. We show that ByGPT5 outperforms other models such as mT5, ByT5, GPT-2 and **ChatGPT**, while also being more parameter efficient and performing favorably compared to humans. In addition, we analyze its runtime performance and introspect the model's understan… ▽ More

Submitted 20 December, 2022; **originally announced** December 2022.

Comments: Preprint

9. arXiv:2212.09993 [pdf, other] cs.AI cs.CV cs.LG

Are Deep Neural Networks SMARTer than Second Graders?

Authors: Anoop Cherian, Kuan-Chuan Peng, Suhas Lohit, Kevin Smith, Joshua B. Tenenbaum

Abstract: …number of applications of deep neural networks towards solving tasks that require superior cognitive abilities, e.g., playing Go, generating art, question answering (such as **ChatGPT**), etc. Such a dramatic progress raises the question: how generalizable are neural networks in solving problems that demand broad skills? To answer this question, we propose SMART… ▽ More

Submitted 4 January, 2023; **v1** submitted 19 December, 2022; **originally announced** December 2022.

10. arXiv:2212.09292 [pdf, other] cs.AI cs.CL

ChatGPT: The End of Online Exam Integrity?

Authors: Teo Susnjak

Abstract: This study evaluated the ability of **ChatGPT**, a recently developed artificial intelligence (AI) agent, to perform high-level cognitive tasks and produce text that is indistinguishable from human-generated text. This capacity raises concerns about the potential use of… ▽ More

Submitted 19 December, 2022; **originally announced** December 2022.

11. arXiv:2212.08104 [pdf] cs.CL cs.AI cs.CY

The Role of AI in Drug Discovery: Challenges, Opportunities, and Strategies

Authors: Alexandre Blanco-Gonzalez, Alfonso Cabezon, Alejandro Seco-Gonzalez, Daniel Conde-Torres, Paula Antelo-Riveiro, Angel Pineiro, Rebeca Garcia-Fandino

Abstract: ...insights into the challenges and opportunities for realizing its potential in this field. Note from the human-authors: This article was created to test the ability of **ChatGPT**, a chatbot based on the GPT-3.5 language model, to assist human authors in writing review articles. The text generated by the AI following our instructions (see Supporting Information... ▽ More

Submitted 8 December, 2022; **originally announced** December 2022.

Comments: 11 pages, 1 figure

12. arXiv:2212.06933 [pdf, other] cs.CL cs.AI cs.IR

Paraphrase Identification with Deep Learning: A Review of Datasets and Methods

Authors: Chao Zhou, Cheng Qiu, Daniel E. Acuna

Abstract: The rapid advancement of AI technology has made text generation tools like GPT-3 and **ChatGPT** increasingly accessible, scalable, and effective. This can pose serious threat to the credibility of various forms of media if these technologies are used for plagiarism, including scientific literature and news sources. Despite the development of automated methods f... ▽ More

Submitted 13 December, 2022; **originally announced** December 2022.

Comments: 36 pages, 2 figures, 6 tables, 173 references

13. arXiv:2212.06721 [pdf] cs.LG cs.AI cs.CL

The Turing Deception

Authors: David Noever, Matt Ciolino

Abstract: This research revisits the classic Turing test and compares recent large language models such as **ChatGPT** for their abilities to reproduce human-level comprehension and compelling text generation. Two task challenges -- summarization, and question answering -- prompt **ChatGPT** to produce original content (98-99%) from a s... ▽ More

Submitted 23 December, 2022; **v1** submitted 9 December, 2022; **originally announced** December 2022.

14. arXiv:2212.05856 [pdf, other] cs.CL

"I think this is the most disruptive technology": Exploring Sentiments of ChatGPT Early Adopters using Twitter Data

Authors: Mubin Ul Haque, Isuru Dharmadasa, Zarrin Tasnim Sworna, Roshan Namal Rajapakse, Hussain Ahmad

Abstract: Large language models have recently attracted significant attention due to their impressive performance on a variety of tasks. **ChatGPT** developed by OpenAI is one such implementation of a large, pre-trained language model that has gained immense popularity among early adopters, where certain users go to the extent of characterizing it as a disruptive technolo... ▽ More

Submitted 12 December, 2022; **originally announced** December 2022.

Comments: This is an early version of this paper

15. arXiv:2211.06869 [pdf, other] cs.CL cs.AI

What would Harry say? Building Dialogue Agents for Characters in a Story

Authors: Nuo Chen, Yan Wang, Haiyun Jiang, Deng Cai, Ziyang Chen, Longyue Wang, Jia Li

Abstract: ...disappoint us in that although the generated responses are fluent, they still seem out of character for Harry. Besides, we validate the current most robust dialogue agent, **ChatGPT**, which also can't generate plausible Harry-Potter-like responses in some cases, either. Our results suggest that there is much scope for future research. ▽ More

Submitted 18 December, 2022; **v1** submitted 13 November, 2022; **originally announced** November 2022.

Comments: 14 pages

16. arXiv:2206.05442 [pdf, other] cs.LG

Automatically Answering and Generating Machine Learning Final Exams

Authors: Sarah Zhang, Reece Shuttleworth, Zad Chin, Pedro Lantigua, Saisamrit Surbehera, Gregory Hunter, Derek Austin, Yann Hicke, Leonard Tang, Sathwik Karnik, Darnell Granberry, Iddo Drori

Abstract: ...with numeric answers, and questions with expression answers, and evaluate a large free language model, Meta's OPT, and compare the results with Open AI's GPT-3, **ChatGPT**, and Codex. A student survey comparing the quality, appropriateness, and difficulty of machine-generated questions with human-written questions shows that across multiple aspects, mac… ▽ More

Submitted 23 December, 2022; **v1** submitted 11 June, 2022; **originally announced** June 2022.

Comments: 17 pages